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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/705,879	11/13/2003	Uwe Leuteritz	1033275-000416	6293	
21839 7550 07/7/8/2008 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			EXAM	EXAMINER	
			HWU, DAVIS D		
			ART UNIT	PAPER NUMBER	
			3752		
			NOTIFICATION DATE	DELIVERY MODE	
			07/08/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Application No. Applicant(s) 10/705.879 LEUTERITZ ET AL Office Action Summary Examiner Art Unit Davis D. Hwu 3752 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
Paper No(s)/Mail Date _______.

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6) Other:

5) Notice of Informal Patent Application

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Response to Amendment

- 1. Applicant's amendment and arguments of May 20, 2008 have been entered.
- The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

 Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Probst in view of Kelly (US Patent 4,255,777).

Probst discloses a liquid atomizing device comprising a conductive nozzle body 14 having a pressurized liquid supply 17 and an electrode 27, wherein the body is put on ground potential at portion 22, and a voltage supply to bring about an electrostatic charging of the liquid medium as recited. Probst does not disclose the voltage being pulsed. Kelly teaches a liquid atomizing device which uses a pulsed voltage source to electrostatically charge the liquid. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the device of Probst by providing a pulsed voltage source to electrostatically charge the liquid as has been taught by Kelly. The device will carry out methods as recited. Regarding claim 3, this method step would have been obvious to one having ordinary skill in the art in order to compensate for a reduction of the pressure of the liquid medium in order to adequately atomize the liquid. Regarding claim 4, the liquid comprising liquid fuel would have been a matter of design choice, and it would have been obvious to one having ordinary skill in the art that a higher duty cycle would be applied during start up since the fuel is cold in order to adequately atomize the fuel. The nozzle having a plurality of openings and the

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electrode being in the internal volume of the nozzle body as recited in new claims 7 and 8 would have been matters of design choice since the device will still carry out the same functions with such arrangements.

Response to Arguments

4. Applicant's arguments filed May 20, 2008 have been fully considered but they are not persuasive. Claim 1 of the instant invention recites "a conductive nozzle body under pressure, wherein the conductive nozzle body is put on ground potential" which is equivalent to the body 22 of Probst (column 3, lines 49-50). Since the Applicant has not further recited any further limitations of the nozzle body such as its location, the prior art reads on the claim language as written. Probst also comprises an electrode 27 which creates an electric field between the electrode and the nozzle body and Kelly teaches a pulsed voltage as recited. Therefore, the prior art discloses the claimed structural limitations of the instant invention as recited by the claim language.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on 571-272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Davis D Hwu/ Primary Examiner, Art Unit 3752